

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	09/534,956	SHYR, JIN-SHENG
	Examiner Chuck Kendall	Art Unit 2122

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 08/04/2004.
2.  The allowed claim(s) is/are 1-33.
3.  The drawings filed on 24 March 2000 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

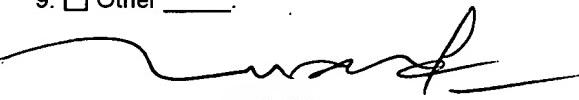
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_



TUAN DAM  
SUPERVISORY PATENT EXAMINER

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Examiner's Reasons for Allowance

1. Examiner has considered Applicant's response dated 08/04/2004 and after further review of Applicant's comments, claims 1 – 33 are in condition for allowance.

The following is an Examiner's statement of reasons for allowance, as Applicant pointed out under remarks section on page 12 and 13, of Applicant's response dated 08/04/2004.

The prior art of record does not teach or fairly suggest at least:

“...processing each function call identified within the software program into both a hard implementation for hard execution in said reconfigurable logic partitions wherein a set of configuration bits associated with said each function call is generated and into a soft implementation for soft execution in said embedded processor”, as best illustrated by figure 3 and in such a manner as recited in claim 1.

“...analyzing a computer software program to identify subset(s) of the computer software program that could be implemented by (re)configuring reconfigurable logic to perform the identified subsets in hardware in a dynamically reconfigurable logic device; and selectively (re)configuring the reconfigurable logic within the reconfigurable logic device during run-time of the software program to implement one or more of the identified subset(s) of the computer software program” as best illustrated by figure 3 and in such a manner as recited in claim 21.

“...one or more reconfigurable logic element(s), communicatively coupled with at least a subset off the one or more embedded controllers, the logic device to analyze a software program to schedule function calls, wherein select function calls are selected for hard implementation

through (re)configuration of at least a subset of the one or more reconfigurable logic element(s) while other function call(s) are implemented in software by one or more of the embedded controller(s), and wherein the determination of whether a function call is implemented in hardware or software is made at runtime of the software program", as best illustrated by figure 3 and in such a manner as recited in claim 28.

Therefore, all claims, i.e. claims 1 –33 are in condition for allowance. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Correspondence Information

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuck Kendall whose telephone number is 571-2723698. The examiner can normally be reached on 10:00 am - 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached on 571-2723695. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair>-

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CK.



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SUPERVISORY PATENT EXAMINER

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